

1   **WHAT IS CLAIMED IS:**

2           1. A hinge comprising:

3           a first sheet having a non-circular first opening, two first wings formed  
4   at two diametrically opposite sides of the first non-circular opening, and two first  
5   lugs formed on an upper surface of the first sheet and respectively adjacent to the  
6   first wings;

7           a rotating ring mounted on the first sheet, the rotating ring having a  
8   second opening aligned with the first opening, and an ear formed at an outer  
9   circumference of the rotating ring;

10          a second sheet mounted on the rotating ring, the second sheet having a  
11   third opening aligned with the first and second openings, four slots radially and  
12   evenly defined around an outer circumference of the third opening and in  
13   communication with the third opening, two second wings formed at two  
14   diametrically opposite sides of the second opening, and two second lugs formed  
15   at a lower surface of the second sheet;

16          a positioning ring mounted on the second sheet, the positioning ring  
17   having a non-circular fourth opening aligned with the third opening and  
18   corresponding to the first opening, at least one protrusion formed at a lower  
19   surface of the positioning ring and selectively positioned in one of the slots;

20          an elastic ring provided on the positioning ring;

21          a washer mounted on the elastic ring (50);

22          a pintle with a non-circular cross section corresponding to the first  
23   opening and the fourth opening, in turn extending through the first opening of the  
24   first sheet, the second opening of the positioning ring, the third opening of the

1 second sheet, the fourth opening of the positioning ring, the elastic ring, and the  
2 washer, the pintle having an annular recess defined at a distal end of the pintle;  
3 and

4 a C-like collar attached in the annular recess to fasten the pintle.

5 2. The hinge as claimed in claim 1, wherein each of the first wings has at  
6 least one first hole defined through the first wing; and each of the second wings  
7 has at least one second hole defined through the second wing.

8 3. The hinge as claimed in claim 1, wherein the first opening has a cross  
9 section with two parallel linear sides and two arcuate sides respectively between  
10 ends of the parallel linear sides.

11 4. The hinge as claimed in claim 3, wherein the fourth opening has a  
12 cross section with two parallel linear sides and two arcuate sides respectively  
13 between ends of the parallel linear sides and corresponding to the first opening.

14 5. The hinge as claimed in claim 4, wherein the pintle has a cross section  
15 with two parallel linear sides and two arcuate sides respectively between ends of  
16 the parallel linear sides and corresponding to the first and fourth openings.